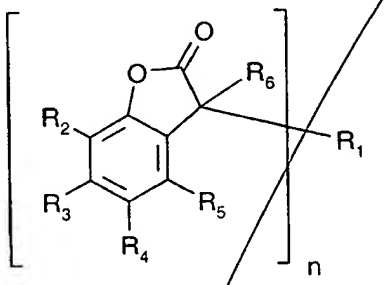
Claims:

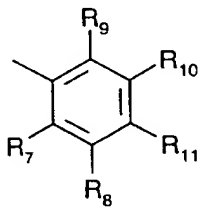
1. Process for preventing migration of the oxidised developer in a colour photographic material from one colour sensitive layer to another by incorporating a compound of the formula I into said material



(I),

wherein, if n = 1,

R_1 is a cyclic residue selected from naphthyl, phenanthryl, anthryl, 5,6,7,8-tetrahydro-2-naphthyl, 5,6,7,8-tetrahydro-1-naphthyl, thienyl, benzo[b]thienyl, naphtho[2,3-b]thienyl, thianthrenyl, dibenzofuryl, chromenyl, xanthenyl, phenoxathiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyrazinyl, pyrimidinyl, pyridazinyl, indolizinyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, isoquinolyl, quinolyl, phthalazinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, β-carbolinyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl, biphenyl, terphenyl, fluorenyl or phenoxazinyl, each of which is unsubstituted or substituted by C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkylthio, hydroxy, halogen, amino, C_1-C_4alkylamino, phenylamino or di(C_1-C_4-alkyl)amino; or R_1 is a radical of formula II



(II),

and, if n = 2,

R_1 is unsubstituted or C_1-C_4alkyl- or hydroxy-substituted phenylene or naphthylene; or

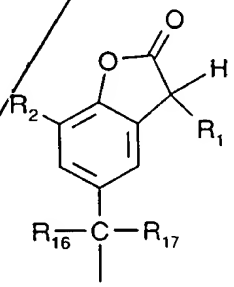
$-R_{12}-X-R_{13}-$;

R_2, R_3, R_4 and R_5 are each independently of one another hydrogen; chloro; hydroxy; C_1-C_{25}-alkyl; C_7-C_9phenylalkyl; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; C_1-C_{18}alkoxy; C_1-C_{18}alkylthio; C_1-C_4alkylamino; di(C_1-C_4-alkyl)amino; C_1-C_{25}alkanoyloxy; C_1-C_{25}alkanoylamino; C_3-C_{25}alkenoyloxy;

C_3-C_{25}alkanoyloxy which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_6-C_9cycloalkyl-carbonyloxy; benzoyloxy or C_1-C_{12}alkyl-substituted benzoyloxy; or R_2 and R_3, or R_3 and R_4, or R_4 and R_5, together with the linking carbon atoms, form a benzene ring;

or R_4 is $-C_mH_{2m}-COR_{15}$, $-O-(C_vH_{2v})-COR'_{15}$, $-O-(CH_2)_q-OR_{32}$, $-OCH_2-CH(OH)-CH_2-R'_{15}$, $-OCH_2-CH(OH)-CH_2-OR_{32}$, or $-(CH_2)_qOH$;

or, if R_3, R_5 and R_6 are hydrogen, R_4 is additionally a radical of formula III



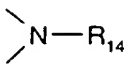
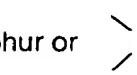
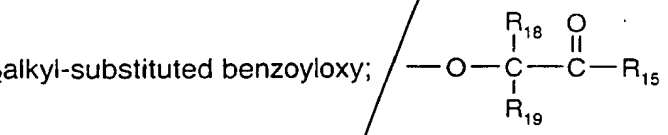
(III),

wherein R_1 is as defined above for n = 1;

R_6 is hydrogen or, when R_4 is hydroxy, R_6 can also be C_1-C_{25}alkyl or C_3-C_{25}alkenyl;

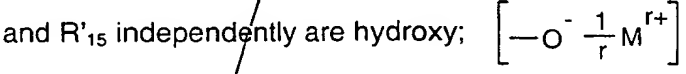
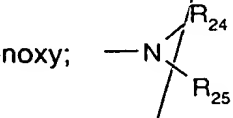
R_7, R_8, R_9, R_{10} and R_{11} are each independently of one another hydrogen; halogen; hydroxy; C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_1-C_{25}alkoxy; C_2-C_{25}alkoxy which is interrupted by oxygen, sulphur or $>N-R_{14}$;

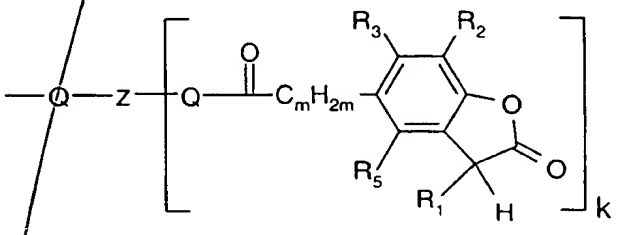
C_1-C_{25}alkylthio; C_3-C_{25}-alkenyl; C_3-C_{25}alkenyloxy; C_3-C_{25}alkynyl; C_3-C_{25}alkynyloxy; C_7-C_9phenylalkyl; C_7-C_9phenylalkoxy; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl- substituted phenoxy; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkoxy; C_1-C_4alkylamino; di(C_1-C_4alkyl)amino; C_1-C_{25}alkanoyl; C_3-C_{25}alkanoyl which is interrupted by oxygen, sulphur

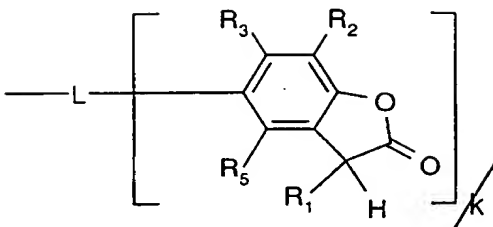
or  ; C_1-C_{25}alkanoyloxy; C_3-C_{25}alkanoyloxy which is interrupted by oxygen, sulphur or  ; C_1-C_{25}alkanoylamino; C_3-C_{25}alkenoyl; C_3-C_{25}alkenoyl which is interrupted by oxygen, sulphur or  ; C_3-C_{25}alkenoyloxy; C_3-C_{25}alkenoyloxy which is interrupted by oxygen, sulphur or  ; C_6-C_9cycloalkylcarbonyl; C_6-C_9cycloalkylcarbonyloxy; benzoyl or C_1-C_{12}alkyl-substituted benzoyl; benzoyloxy or C_1-C_{12}alkyl-substituted benzoyloxy;  or, in formula II, R_7 and R_8, or R_8 and R_{11}, together with the linking carbon atoms, form a benzene ring;

R_{12} and R_{13} are each independently of the other unsubstituted or C_1-C_4alkyl-substituted phenylene or naphthylene;

R_{14} is hydrogen or C_1-C_8alkyl;

R_{15} and R'_{15} independently are hydroxy;  ; C_1-C_{20}alkoxy; C_3-C_{20}alkoxy interrupted by O and/or substituted by a radical selected from OH, phenoxy, C_7-C_{15}alkylphenoxy, C_7-C_{15}alkoxyphenoxy; or are C_5-C_{12}cycloalkoxy; C_7-C_{17}phenylalkoxy; phenoxy;  ; or a group of the formula IIIa or IIIb

 (IIIa);



(IIIb);

R_{16} and R_{17} are each independently of the other hydrogen, CF_3, C_1-C_{12}alkyl or phenyl, or R_{16} and R_{17}, together with the linking carbon atom, are a C_5-C_8cycloalkylidene ring which is unsubstituted or substituted by 1 to 3 C_1-C_4alkyl;

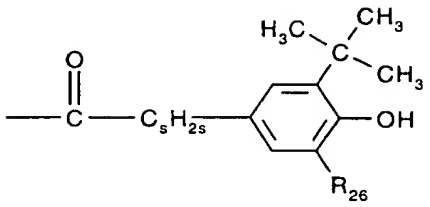
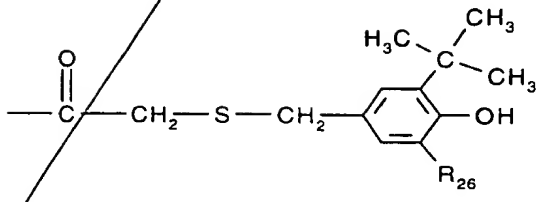
R_{18} and R_{19} are each independently of the other hydrogen, C_1-C_4alkyl or phenyl;

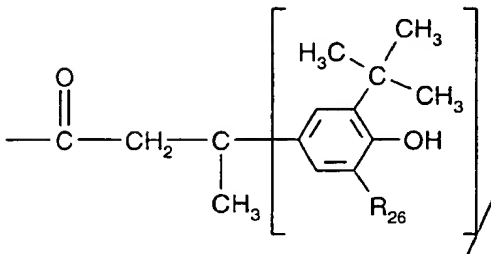
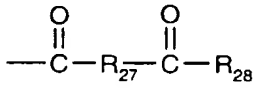
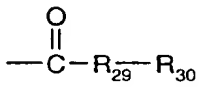
R_{20} is hydrogen or C_1-C_4alkyl;

R_{21} is hydrogen; unsubstituted or C_1-C_4alkyl-substituted phenyl; C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_7-C_9phenylalkyl which is unsubstituted or substituted at the phenyl moiety by 1 to 3 C_1-C_4alkyl; C_7-C_{25}phenylalkyl which is interrupted by oxygen, sulphur or $>N-R_{14}$ and which is unsubstituted or substituted at the phenyl moiety by 1 to 3 C_1-C_4alkyl; or R_{20} and R_{21}, together with the linking carbon atoms, form a C_5-C_{12}cycloalkylene ring which is unsubstituted or substituted by 1 to 3 C_1-C_4alkyl;

R_{22} is hydrogen or C_1-C_4alkyl;

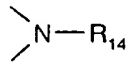
R_{23} is hydrogen; C_1-C_{25}alkanoyl; C_3-C_{25}alkenoyl; C_3-C_{25}alkanoyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_2-C_{25}alkanoyl which is substituted by a di(C_1-C_6alkyl)phosphonate group; C_6-C_9cycloalkylcarbonyl; thenoyl; furoyl; benzoyl or C_1-C_{12}alkyl-substituted

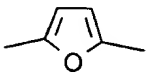
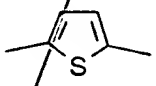
benzoyl;  ;  ;

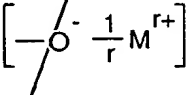
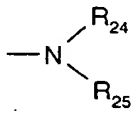
 ;  or  ;

R_{24} and R_{25} are each independently of the other hydrogen or C_1-C_{18}alkyl;

R_{26} is hydrogen or C_1-C_8alkyl;

R_{27} is a direct bond; C_1-C_{18}alkylene; C_2-C_{18}alkylene which is interrupted by oxygen, sulphur or  ; C_2-C_{18}alkenylene; C_2-C_{20}alkylidene; C_7-C_{20}phenylalkylidene; C_5-C_8cycloalkylene; C_7-C_8bicycloalkylene; unsubstituted or C_1-C_4alkyl-substituted phenylene;

 or  ;

R_{28} is hydroxy,  , C_1-C_{18}alkoxy or  ;

R_{29} is oxygen or -NH-;

R_{30} is C_1-C_{18}alkyl or phenyl;

R_{31} is hydrogen or C_1-C_{18}alkyl;

R_{32} is C_1-C_{18}alkanoyl; C_1-C_8alkanoyl substituted by phenyl or C_7-C_{15}alkylphenyl; C_3-C_{18}alkenoyl; cyclohexylcarbonyl; or naphthylcarbonyl;

L is a linking group of valency (k+1) and is as a divalent group

-O-;

Q-C_2-C_{12}alkylene-Q;

-O-CH_2-CH(OH)-CH_2-O-;

-Q-C_2-C_{12}alkylene-Q-CO-C_vH_{2v}-O-;

-O-C_2-C_{12}alkylene-O-CH_2-CH(OH)-CH_2-O-;

Q-interrupted Q-C_4-C_{12}alkylene-Q;

Q-phenylene-Q or

Q-phenylene-D-phenylene-Q with D being C_1-C_4alkylene, O, S, SO or SO_2;

L as a trivalent group is Q-capped C_3-C_{12}alkanetriyl, a trivalent residue of a hexose or a hexitol, or a group $(-O-CH_2)_3C-CH_2OH$; $-Q-C_aH_{2a}-N(C_bH_{2b}-Q-)-C_cH_{2c}-Q-$;

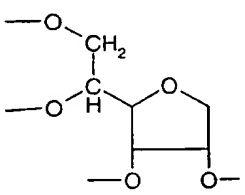
-Q-C_3-C_{12}alkanetriyl(-Q-CO-C_vH_{2v}-O-)$_2$;

-O-C_3-C_{12}alkanetriyl(-O-CH_2-CH(OH)-CH_2-O-)$_2$; and

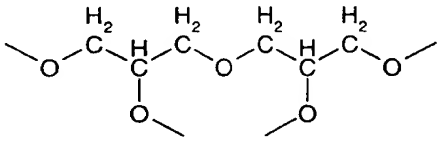
L as a tetravalent group is a tetravalent residue of a hexose or a hexitol;

-Q-C_4-C_{12}alkanetetryl(-Q-CO-C_vH_{2v}-O-)$_3$;

-O-C_4-C_{12}alkanetetryl(-O-CH_2-CH(OH)-CH_2-O-)$_3$; Q-capped C_4-C_{12}alkanetetryl; a group



or a group



;

M is an r-valent metal cation;

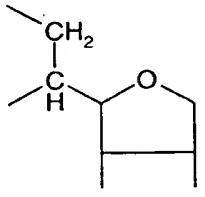
Q is oxygen or -NH-;

X is a direct bond, oxygen, sulphur or $-NR_{31}-$;

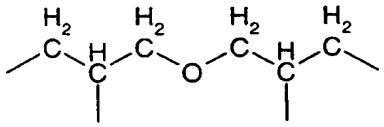
Z is a linking group of valency (k+1) and is as a divalent group C_2-C_{12}alkylene; Q-interrupted C_4-C_{12}alkylene; phenylene or phenylene-D-phenylene with D being C_1-C_4alkylene, O, S, SO or SO_2;

Z as a trivalent group is C_3-C_{12}alkanetriyl, a trivalent residue of a hexose or a hexitol, a group $(-CH_2)_3C-CH_2OH$, or a group $-C_aH_{2a}-N(C_bH_{2b}-)-C_cH_{2c}-$; and

Z as a tetravalent group is a tetravalent, carbon-ended residue of a hexose or a hexitol, C_4-C_{12}alkanetetryl, a group



or a group



;

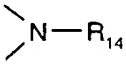
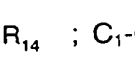
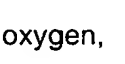
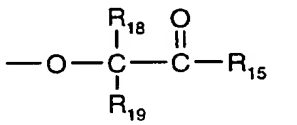
a, b, c and k independently are 1, 2 or 3;

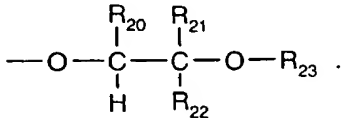
m is 0 or a number from the range 1-12, preferably 1-6;

n is 1 or 2;

q is 1, 2, 3, 4, 5 or 6;

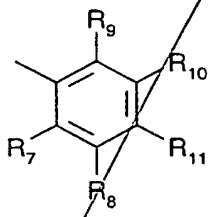
r is 1, 2 or 3; and
s is 0, 1 or 2;
v is 1, 2, 3, 4, 5, 6, 7 or 8, preferably 1 or 2;
provided that, when R_7 is hydroxy, alkanoyloxy or alkanoyloxy interrupted by O, S or N(R_{14}) and R_9 is hydrogen, R_{10} is not identical with R_4; and when R_9 is hydroxy, alkanoyloxy or alkanoyloxy interrupted by O, S or N(R_{14}) and R_7 is hydrogen, R_8 is not identical with R_4.

2. Process according to claim 1, wherein in the compound of formula I
R_7 and R_9 are each independently of one another hydrogen; halogen; C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or  ; C_2-C_{25}alkoxy which is interrupted by oxygen, sulphur or  ; C_1-C_{25}alkylthio; C_3-C_{25}-alkenyl; C_3-C_{25}alkenyloxy; C_3-C_{25}alkynyl; C_3-C_{25}alkynyloxy; C_7-C_9phenylalkyl; C_7-C_9phenylalkoxy; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl- substituted phenoxy; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkoxy; C_1-C_4alkylamino; di(C_1-C_4alkyl)amino; C_1-C_{25}alkanoyl; C_3-C_{25}alkanoyl which is interrupted by oxygen, sulphur or  ; C_1-C_{25}alkanoylamino; C_3-C_{25}alkenoyl; C_3-C_{25}alkenoyl which is interrupted by oxygen, sulphur or  ; C_6-C_9-cycloalkylcarbonyl; benzoyl or C_1-C_{12}alkyl-substituted benzoyl;  or

 .

3. Process according to claim 1 wherein in the compound of formula I
R_1 is naphthyl, phenanthryl, anthryl, 5,6,7,8-tetrahydro-2-naphthyl, 5,6,7,8-tetrahydro-1-naphthyl, thienyl, benzo[b]thienyl, naphtho[2,3-b]thienyl, thianthrenyl, dibenzofuryl, chromenyl, xanthenyl, phenoxathiinyl, pyrrolyl, imidazolyl, pyrazolyl, pyrazinyl, pyrimidinyl, pyridazi-

nyl, indolizinyl, isoindolyl, indolyl, indazolyl, purinyl, quinolizinyl, isoquinolyl, quinolyl, phthalazinyl, naphthyridinyl, quinoxalinyl, quinazolinyl, cinnolinyl, pteridinyl, carbazolyl, β-carbolinyl, phenanthridinyl, acridinyl, perimidinyl, phenanthrolinyl, phenazinyl, isothiazolyl, phenothiazinyl, isoxazolyl, furazanyl, biphenyl, terphenyl, fluorenyl or phenoxazinyl, each of which is unsubstituted or substituted by C_1-C_4alkyl, C_1-C_4alkoxy, C_1-C_4alkylthio, hydroxy, halogen, amino, C_1-C_4alkylamino, phenylamino or di(C_1-C_4-alkyl)amino, or R_1 is a radical of formula II



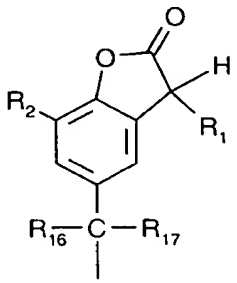
(II),

and, if n = 2,

R_1 is unsubstituted or C_1-C_4alkyl- or hydroxy-substituted phenylene or naphthylene; or $-R_{12}-X-R_{13}-$,

R_2, R_3, R_4 and R_5 are each independently of one another hydrogen, chloro, hydroxy, C_1-C_{25}-alkyl, C_7-C_9phenylalkyl, unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; C_1-C_{18}alkoxy, C_1-C_{18}alkylthio, C_1-C_4alkylamino, di(C_1-C_4-alkyl)amino, C_1-C_{25}alkanoyloxy, C_1-C_{25}alkanoylamino, C_3-C_{25}alkenoyloxy;

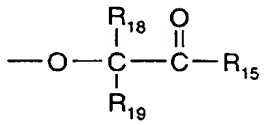
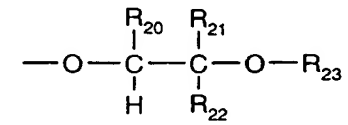
C_3-C_{25}alkanoyloxy which is interrupted by oxygen, sulphur or  ; C_6-C_9cycloalkyl-carbonyloxy, benzoyloxy or C_1-C_{12}alkyl-substituted benzoyloxy; or R_2 and R_3, or R_3 and R_4, or R_4 and R_5, together with the linking carbon atoms, form a benzene ring; or R_4 is $-C_mH_{2m}-COR_{15}$ or $-(CH_2)_qOH$ or, if R_3, R_5 and R_6 are hydrogen, R_4 is additionally a radical of formula III



(III),

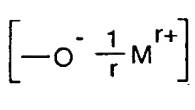
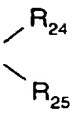
wherein R_1 is as defined above for n = 1;

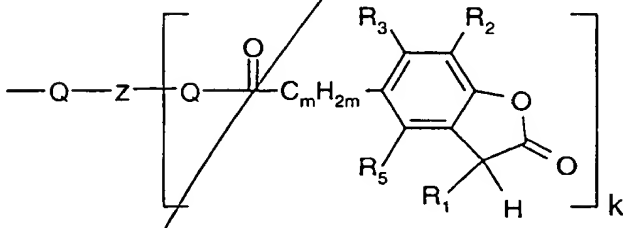
R_6 is hydrogen or, when R_4 is hydroxy, R_6 can also be C_1-C_{25}alkyl or C_3-C_{25}alkenyl;

R_7, R_8, R_9, R_{10} and R_{11} are each independently of one another hydrogen, halogen, hydroxy, C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_1-C_{25}alkoxy; C_2-C_{25}alkoxy which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_1-C_{25}alkylthio, C_3-C_{25}-alkenyl, C_3-C_{25}alkenyloxy, C_3-C_{25}alkynyl, C_3-C_{25}alkynyloxy, C_7-C_9phenylalkyl, C_7-C_9phenylalkoxy, unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted phenoxy; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkoxy; C_1-C_4alkylamino, di(C_1-C_4alkyl)amino, C_1-C_{25}alkanoyl; C_3-C_{25}alkanoyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_1-C_{25}alkanoyloxy; C_3-C_{25}alkanoyloxy which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_1-C_{25}alkanoylamino, C_3-C_{25}alkenoyl; C_3-C_{25}alkenoyl which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_3-C_{25}alkenoyloxy; C_3-C_{25}alkenoyloxy which is interrupted by oxygen, sulphur or $>N-R_{14}$; C_6-C_9cycloalkylcarbonyl, C_6-C_9cycloalkylcarbonyloxy, benzoyl or C_1-C_{12}alkyl-substituted benzoyl; benzoyloxy or C_1-C_{12}alkyl-substituted benzoyloxy;  or  or, in formula II, R_7 and R_8, or R_8 and R_{11}, together with the linking carbon atoms, form a benzene ring,

R_{12} and R_{13} are each independently of the other unsubstituted or C_1-C_4alkyl-substituted phenylene or naphthylene,

R_{14} is hydrogen or C_1-C_8alkyl,

R_{15} is hydroxy,  , C_1-C_{20}alkoxy,  , or a group of the formula IIIa



(IIIa);

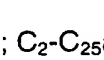
R_{16} and R_{17} are each independently of the other hydrogen, CF_3, C_1-C_{12}alkyl or phenyl, or R_{16} and R_{17}, together with the linking carbon atom, are a C_5-C_8cycloalkylidene ring which is unsubstituted or substituted by 1 to 3 C_1-C_4alkyl;

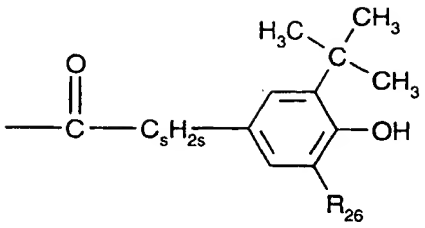
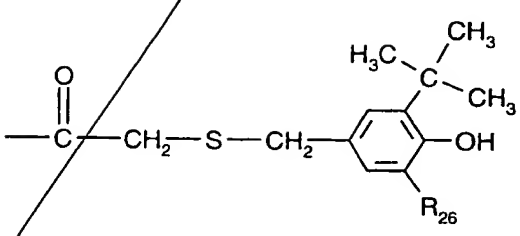
R_{18} and R_{19} are each independently of the other hydrogen, C_1-C_4alkyl or phenyl,

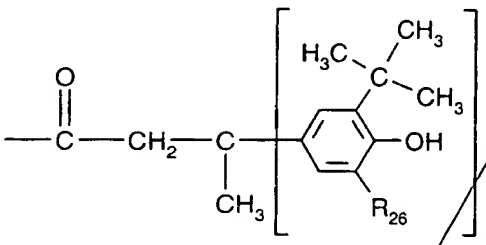
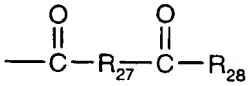
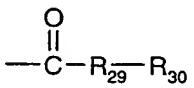
R_{20} is hydrogen or C_1-C_4alkyl,

R_{21} is hydrogen, unsubstituted or C_1-C_4alkyl-substituted phenyl; C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or  ; C_7-C_9phenylalkyl which is unsubstituted or substituted at the phenyl moiety by 1 to 3 C_1-C_4alkyl; C_7-C_{25}phenylalkyl which is interrupted by oxygen, sulphur or  and which is unsubstituted or substituted at the phenyl moiety by 1 to 3 C_1-C_4alkyl, or R_{20} and R_{21}, together with the linking carbon atoms, form a C_5-C_{12}cycloalkylene ring which is unsubstituted or substituted by 1 to 3 C_1-C_4alkyl;

R_{22} is hydrogen or C_1-C_4alkyl,

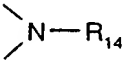
R_{23} is hydrogen, C_1-C_{25}alkanoyl, C_3-C_{25}alkenoyl; C_3-C_{25}alkanoyl which is interrupted by oxygen, sulphur or  ; C_2-C_{25}alkanoyl which is substituted by a di(C_1-C_6alkyl)phosphonate group; C_6-C_9cycloalkylcarbonyl, thenoyl, furoyl, benzoyl or C_1-C_{12}alkyl-substituted

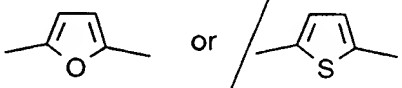
benzoyl;  ,  ,

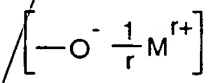
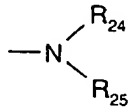
 ,  or  ,

R_{24} and R_{25} are each independently of the other hydrogen or C_1-C_{18}alkyl,

R_{26} is hydrogen or C_1-C_8alkyl,

R_{27} is a direct bond, C_1-C_{18}alkylene; C_2-C_{18}alkylene which is interrupted by oxygen, sulphur or  ; C_2-C_{18}alkenylene, C_2-C_{20}alkylidene, C_7-C_{20}phenylalkylidene, C_5-C_8cycloalkylene, C_7-C_8bicycloalkylene, unsubstituted or C_1-C_4alkyl-substituted phenylene,

 ,

R_{28} is hydroxy,  , C_1-C_{18}alkoxy or  ,

R_{29} is oxygen or -NH-,

R_{30} is C_1-C_{18}alkyl or phenyl,

R_{31} is hydrogen or C_1-C_{18}alkyl,

M is an r-valent metal cation,

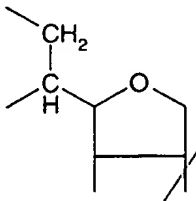
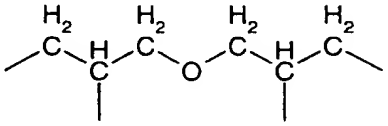
Q is oxygen or -NH-,

X is a direct bond, oxygen, sulphur or -NR_{31}- ,

Z is a linking group of valency (k+1) and is as a divalent group C_2-C_{12}alkylene, Q-interrupted C_4-C_{12}alkylene, phenylene or phenylene-D-phenylene with D being C_1-C_4alkylene, O, S, SO or SO_2;

Z as a trivalent group is C_3-C_{12}alkanetriyl, a trivalent residue of a hexose or a hexitol, a group $(-CH_2)_3C-CH_2OH$, or a group $-C_aH_{2a}-N(C_bH_{2b}-)-C_cH_{2c}-$; and

Z as a tetravalent group is a tetravalent residue of a hexose or a hexitol, C_4-C_{12}alkanetetryl, a

group  or a group  ;

a, b, c and k independently are 1, 2 or 3,

m is 0 or a number from the range 1-12, preferably 1-6,

n is 1 or 2,

q is 1, 2, 3, 4, 5 or 6,

r is 1, 2 or 3, and

s is 0, 1 or 2;

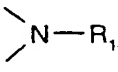
provided that, when R_7 is hydroxy, alkanoyloxy or alkanoyloxy interrupted by O, S or $N(R_{14})$ and R_9 is hydrogen, R_{10} is not identical with R_4.

4. Process according to claim 1, wherein in the compound of formula I

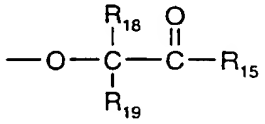
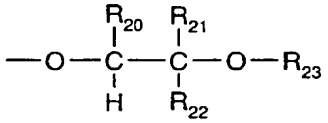
R_2, R_3 and R_5 , independently, are H, Cl, hydroxy, C_1-C_{25}alkyl, C_7-C_9phenylalkyl, unsubstituted or C_1-C_4alkyl-substituted phenyl; C_1-C_{18}alkoxy, C_1-C_{25}alkanoyloxy, C_3-C_{25}alkenoyloxy; and where

R_4 is Cl, hydroxy, C_1-C_{25}alkyl, C_7-C_9phenylalkyl, unsubstituted or C_1-C_4alkyl-substituted phenyl; C_1-C_{18}alkoxy, C_1-C_{25}alkanoyloxy, C_3-C_{25}alkenoyloxy or is a group $-C_mH_{2m}-COR_{15}$, $-O-(C_vH_{2v})-COR'_{15}$, $-O-(CH_2)_q-OR_{32}$, $-OCH_2-CH(OH)-CH_2-R'_{15}$, $-OCH_2-CH(OH)-CH_2-OR_{32}$, or where R_3, R_5 and R_6 are H, R_4 may be a residue of formula III, or where R_8 or R_{10} are other than H, R_4 may also be hydrogen;

R_6 is H,

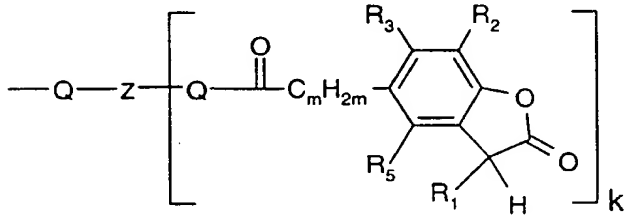
R_7 and R_9 are each independently of one another hydrogen; halogen; C_1-C_{25}alkyl; C_2-C_{25}alkyl which is interrupted by oxygen, sulphur or  ; C_3-C_{25}-alkenyl; C_3-C_{25}alkynyl; C_7-C_9phenylalkyl; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl;

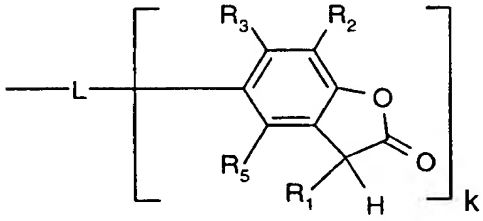
R_8, R_{10} and R_{11} independently are H, halogen, hydroxy, C_1-C_{25}alkyl, O interrupted C_2-C_{25}alkyl; C_1-C_{25}alkoxy, O interrupted C_2-C_{25}alkoxy, C_3-C_{25}alkenyl, C_3-C_{25}alkenyloxy, C_7-

C_9phenylalkyl, C_7-C_9phenylalkoxy, unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl substituted phenoxy; unsubstituted or C_1-C_4alkyl substituted C_5-C_8cycloalkyl; unsubstituted or C_1-C_4alkyl substituted C_5-C_8cycloalkoxy; C_1-C_4alkylamino, di-(C_1-C_4-alkyl)amino, C_1-C_{25}alkanoyl; C_1-C_{25}alkanoyloxy; C_6-C_9cycloalkylcarbonyl, C_6-C_9cycloalkylcarbonyloxy, benzoyl or C_1-C_{12}alkyl-substituted benzoyl; benzoyloxy or C_1-C_{12}alkyl substituted benzoyloxy;  or  , or

where in formula II R_7 and R_8 or R_8 and R_{11} together with the carbon atoms, they are bonded to, form a phenyl ring;

R_{15} and R'_{15} independently are C_1-C_{18}alkoxy; C_3-C_{20}alkoxy interrupted by O and/or substituted by a radical selected from OH, phenoxy, C_7-C_{15}alkylphenoxy, C_7-C_{15}alkoxyphenoxy; or are C_5-C_{12}cycloalkoxy; C_7-C_{17}phenylalkoxy; phenoxy; or $-NR_{23}R_{24}$; or a group of formula IIIa or IIIb;

 (IIIa);

 (IIIb);

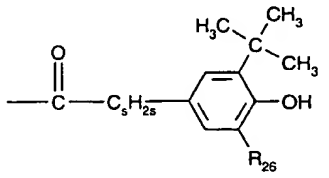
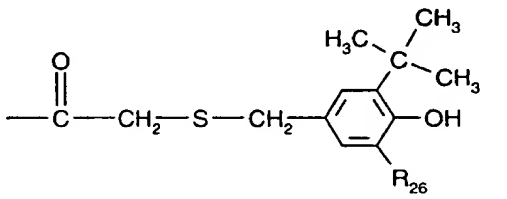
R_{16} and R_{17} independently are H, CF_3, C_1-C_{12}alkyl or phenyl; or R_{16} and R_{17} together with the bonding carbon atom form an unsubstituted or 1-3 C_1-C_4alkyl-substituted C_5-C_8cycloalkylidene ring;

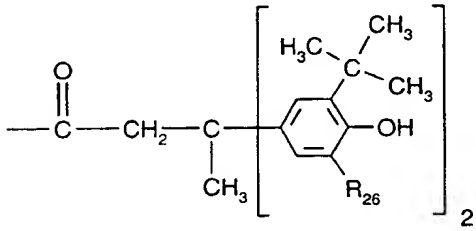
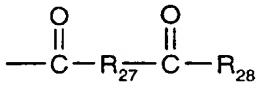
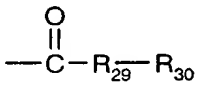
R_{18} andR_{19} independently are H, C_1-C_4alkyl or phenyl;

R_{20} is H or C_1-C_4alkyl;

R_{21} is H, unsubstituted or C_1-C_4alkyl substituted phenyl; C_1-C_{25}alkyl, unsubstituted or on the phenyl ring 1-3 C_1-C_4alkyl-substituted C_7-C_9phenylalkyl;

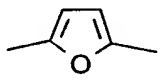
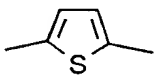
R_{22} is H or C_1-C_4alkyl;

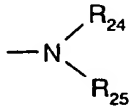
R_{23} is H, C_1-C_{25}alkanoyl, C_3-C_{25}alkenoyl; di(C_1-C_6alkyl)phosphonate-substituted C_2-C_{25}alkanoyl; C_6-C_9cycloalkylcarbonyl, thenoyl, furoyl, benzoyl or C_1-C_{12}alkyl-substituted benzoyl;  ,  ,

 ,  or  ;

R_{24} and R_{25} independently are H or C_1-C_{18}alkyl;

R_{26} is H or C_1-C_8alkyl;

R_{27} is a direct bond, C_1-C_{18}alkylen, C_2-C_{18}alkenylen, C_7-C_{20}phenylalkyliden, C_5-C_8cycloalkylen, unsubstituted or C_1-C_4alkyl-substituted phenylene,  or  ;

R_{28} C_1-C_{18}alkoxy or  ;

R_{29} is O or -NH-;

R_{30} C_1-C_{18}alkyl or phenyl;

M a metal cation of the valency r;

X a direct bond, O, S or $-NR_{31}-$;

n 1 or 2;

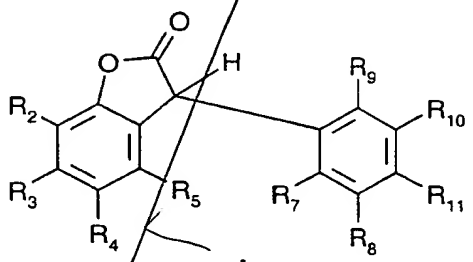
m is a number from the range 1-8;

q 1, 2, 3, 4, 5 or 6;

r 1, 2 or 3; and

s is 0, 1 or 2.

5. Process according to claim 1 wherein the compound of formula I corresponds to the formula IV



(IV)

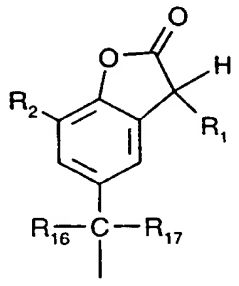
wherein

R_2 is H or C_1-C_{20}alkyl;

R_3 is H or C_1-C_{18}alkyl;

R_4 is C_1-C_8alkyl, H, C_1-C_6alkoxy or a group $-C_mH_{2m}-COR_{15}$; $-O-(C_vH_{2v})-COR_{15}$, $-O-(CH_2)_q-OR_{32}$; $-OCH_2-CH(OH)-CH_2-R_{15}$; $-OCH_2-CH(OH)-CH_2-OR_{32}$;

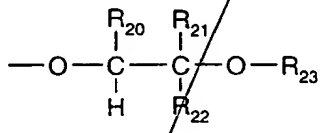
or a group of the formula III



(III);

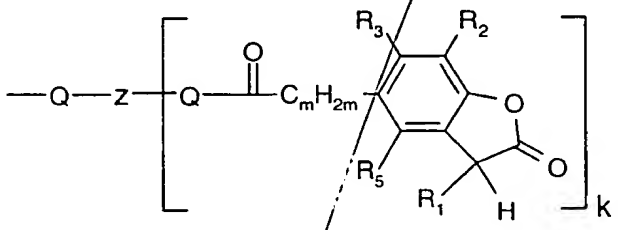
R_5 is H or C_1-C_{18}alkyl;

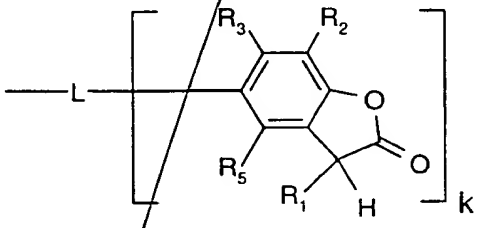
R_7 and R_9 are each independently of one another hydrogen; halogen; C_1-C_{25}alkyl; C_3-C_{25}-alkenyl; C_3-C_{25}alkynyl; C_7-C_9phenylalkyl; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl;

R_8, R_{10} and R_{11} independently are H, OH, chloro, C_1-C_{18}alkyl, C_1-C_{18}alkoxy, di(C_1-C_4alkyl)amino, C_7-C_9phenylalkyl; unsubstituted or C_1-C_4alkyl-substituted phenyl; unsubstituted or C_1-C_4alkyl-substituted C_5-C_8cycloalkyl; C_2-C_{18}alkanoyloxy, C_3-C_{18}-alkoxycarbonylalkoxy or  ;

especially wherein at least 2 of the residues R_7, R_8, R_9, R_{10}, R_{11} are H;

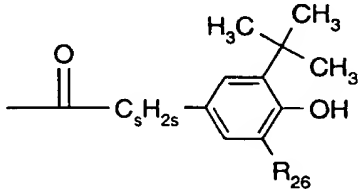
R_{15} is C_1-C_{18}alkoxy; C_3-C_{20}alkoxy interrupted by O; or are cyclohexyloxy; C_7-C_{17}phenylalkoxy; phenoxy; or a group of formula IIIa or IIIb;

 (IIIa);

 (IIIb);

R_{16} and R_{17} independently are H, C_1-C_{12}alkyl or phenyl; or R_{16} and R_{17} together with the bonding carbon atom form a C_5-C_8cycloalkylidene ring;

R_{20}, R_{21} and R_{22} independently are H or C_1-C_4alkyl;

R_{23} is H, C_2-C_{18}alkanoyl or a group 

R_{26} is C_1-C_4alkyl;

R_{32} is C_1-C_{18}alkanoyl; C_1-C_8alkanoyl substituted by phenyl or C_7-C_{15}alkylphenyl; C_3-C_{18}alkenoyl; cyclohexylcarbonyl; or naphthylcarbonyl;

L is a divalent group -O-; Q-C_2-C_{12}alkylene-Q; -O-CH_2-CH(OH)-CH_2-O-; -Q-C_2-C_{12}alkylene-Q-CO-C_vH_{2v}-O-; -O-C_2-C_{12}alkylene-O-CH_2-CH(OH)-CH_2-O-;

Q is oxygen;

Z is C_2-C_{12}alkylene;

k is 1;

m is 1, 2, 3, 4, 5 or 6;

v is 1 or 2; and

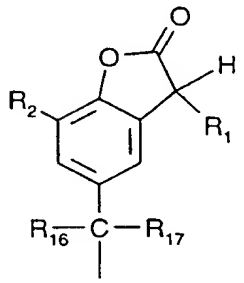
s is 0, 1 or 2.

6. Process according to claim 5 wherein in the compound of formula IV

R_2 is C_1-C_{20}alkyl;

R_3 is H or C_1-C_{18}alkyl;

R_4 is C_1-C_6alkyl, C_1-C_6alkoxy or a group $-C_mH_{2m}-COR_{15}$ or a group of the formula III

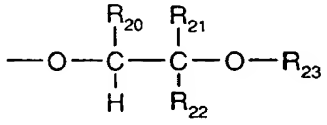


(III);

R_5 is H or C_1-C_{18}alkyl;

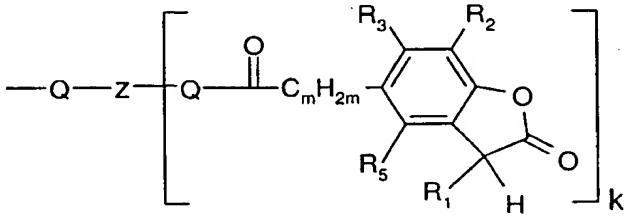
R_7 and R_9 independently are H, chloro, C_1-C_{18}alkyl;

R_8, R_{10} and R_{11} independently are H, OH, chloro, C_1-C_{18}alkyl, C_1-C_{18}alkoxy, di(C_1-C_4alkyl)amino, phenyl, C_2-C_{18}alkanoyloxy or



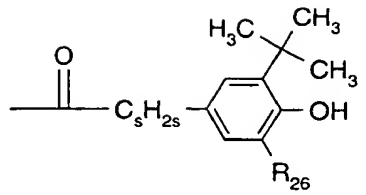
;

R_{15} is C_1-C_{18}alkoxy or a group of the formula IIIa



(IIIa);

R_{20}, R_{21} and R_{22} are H;

R_{23} is H, C_2-C_{18}alkanoyl or a group 

R_{26} is C_1-C_4alkyl;
Q is oxygen;
Z is C_2-C_{12}alkylene;
k is 1;
m is 1, 2, 3, 4, 5 or 6 and
s is 0, 1 or 2.

7. Process according to claim 5 wherein in the compound of formula IV, R_4 is C_1-C_6alkyl, or a group $-C_mH_{2m}-COR_{15}$, $-O-(C_vH_{2v})-COR_{15}$, $-O-(CH_2)_q-OR_{32}$, $-OCH_2-CH(OH)-CH_2-R_{15}$, $-OCH_2-CH(OH)-CH_2-OR_{32}$, or a group of the formula III.

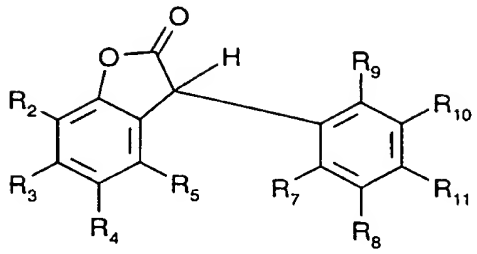
8. Process according to claim 1, wherein the compound of formula I is incorporated into the colour photographic material in an amount from 10 to 1000 mg/m^2.

9. Process according to claim 1, wherein the compound of formula I is concentrated in one or more interlayers separating light sensitive layers of the colour photographic material.

10. Process according to claim 9, wherein a green-sensitive layer containing a magenta coupler of the pyrazolo-azole class is adjacent to an interlayer containing the compound of formula I.

11. Use of a compound of the formula I according to claim 1 as a scavenger for the oxidised developer in a colour photographic material.

12. A colour photographic material or digital recording material containing a compound of the formula IV



(IV)

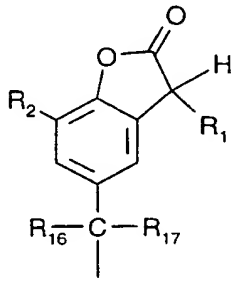
wherein

R_2 is H or C_1-C_{20}alkyl;

R_3 is H or C_1-C_{18}alkyl;

R_4 is C_1-C_8alkyl, C_1-C_6alkoxy or a group $-C_mH_{2m}-COR_{15}$; $-O-(C_vH_{2v})-COR_{15}$, $-O-(CH_2)_q-OR_{32}$; $-OCH_2-CH(OH)-CH_2-R_{15}$; $-OCH_2-CH(OH)-CH_2-OR_{32}$;

or a group of the formula III

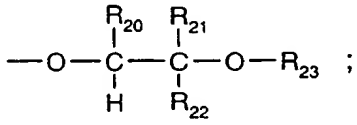


(III);

R_5 is H or C_1-C_{18}alkyl;

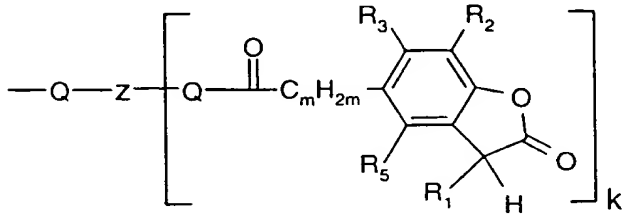
R_7 and R_9 independently are H, chloro, C_1-C_{18}alkyl or phenyl;

R_8, R_{10} and R_{11} independently are H, OH, chloro, C_1-C_{18}alkyl, C_1-C_{18}alkoxy, di(C_1-C_4alkyl)amino, phenyl, C_2-C_{18}alkanoyloxy, C_3-C_{18}-alkoxycarbonylalkoxy or

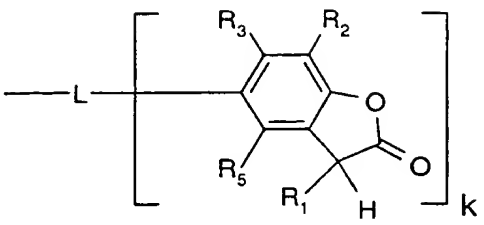


;

R_{15} is C_1-C_{18}alkoxy; C_3-C_{20}alkoxy interrupted by O; or are cyclohexyloxy; C_7-C_{17}phenylalkoxy; phenoxy; or a group of formula IIIa or IIIb;



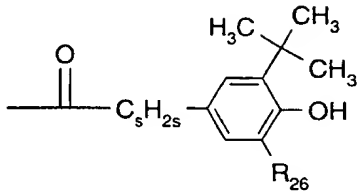
(IIIa);



(IIIb);

R_{16} and R_{17} independently are H, C_1-C_{12}alkyl or phenyl; or R_{16} and R_{17} together with the bonding carbon atom form a C_5-C_8cycloalkylidene ring;

R_{20}, R_{21} and R_{22} independently are H or C_1-C_4alkyl;

R_{23} is H, C_2-C_{18}alkanoyl or a group 

R_{26} is C_1-C_4alkyl;

R_{32} is C_1-C_{18}alkanoyl; C_1-C_8alkanoyl substituted by phenyl or C_7-C_{15}alkylphenyl; C_3-C_{18}alkenoyl; cyclohexylcarbonyl; or naphthylcarbonyl;

L is a divalent group -O-; Q-C_2-C_{12}alkylene-Q; -O-CH_2-CH(OH)-CH_2-O-; -Q-C_2-C_{12}alkylene-Q-CO-C_vH_{2v}-O-; -O-C_2-C_{12}alkylene-O-CH_2-CH(OH)-CH_2-O-;

Q is oxygen;

Z is C_2-C_{12}alkylene;

k is 1;

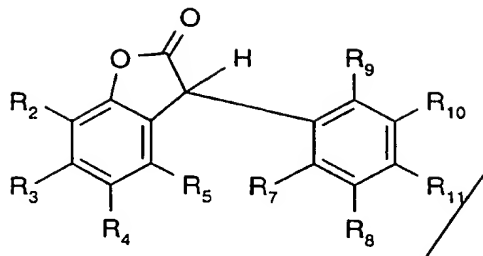
m is 1, 2, 3, 4, 5 or 6;

v is 1 or 2 and

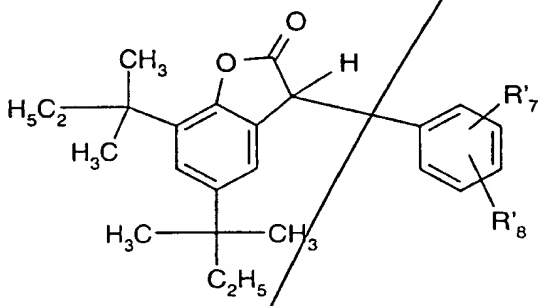
s is 0, 1 or 2.

13. Use of a compound of the formula IV according to claim 12 as an additive in a colour photographic material or digital recording material.

14. Compound of the formula V or VI



(V),

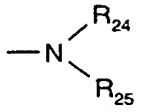


(VI),

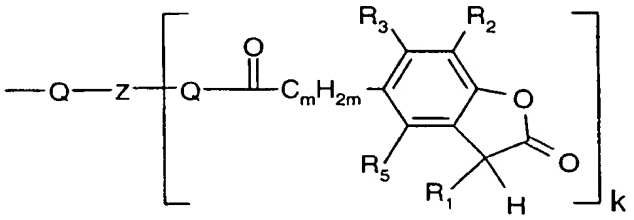
wherein

R_4 is $-(CH_2)_s-COR'_{15}$ or $-CH(CH_3)-COR_{15}$ or $-C_tH_{2t}-COR_{15}$, wherein C_tH_{2t} is a straight chain or branched alkylene moiety; or R_4 is $-O-(C_vH_{2v})-COR_{15}$; $-O-(CH_2)_q-OR_{32}$; $-OCH_2-CH(OH)-CH_2-R_{15}$; or $-OCH_2-CH(OH)-CH_2-OR_{32}$;

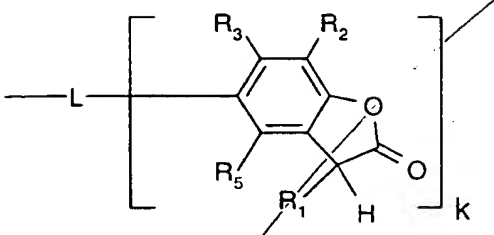
R'_7 is C_1-C_4alkyl and R'_8 is hydrogen or C_1-C_4alkyl;

R_{15} is hydroxy, $\left[-O^- \frac{1}{r}M^{r+}\right]$, C_1-C_{20}alkoxy; C_3-C_{20}alkoxy interrupted by O and/or substituted by a radical selected from OH, phenoxy, C_7-C_{15}alkylphenoxy, C_7-C_{15}alkoxyphenoxy; or R_{15} is C_5-C_{12}cycloalkoxy; C_7-C_{17}phenylalkoxy; phenoxy;  ;

or a group of formula IIIa or IIIb;



(IIIa);



(IIIb);

R'_{15} is C_3-C_{20}alkoxy interrupted by O and/or substituted by a radical selected from OH, phenoxy, C_7-C_{15}alkylphenoxy, C_7-C_{15}alkoxyphenoxy; or R'_{15} is C_5-C_{12}cycloalkoxy; C_7-C_{17}phenylalkoxy; phenoxy; or a group of formula IIIa or IIIb;

R_{32} is C_1-C_{18}alkanoyl; C_1-C_8alkanoyl substituted by phenyl or C_7-C_{15}alkylphenyl; C_3-C_{18}alkenoyl; cyclohexylcarbonyl; or naphthylcarbonyl;

L is a linking group of valency (k+1) and is, as a divalent group,

-O-;

Q-C_2-C_{12}alkylene-Q;

-O-CH_2-CH(OH)-CH_2-O-;

-Q-C_2-C_{12}alkylene-Q-CO-C_vH_{2v}-O-;

-O-C_2-C_{12}alkylene-O-CH_2-CH(OH)-CH_2-O-;

Q-interrupted Q-C_4-C_{12}alkylene-Q;

Q-phenylene-Q or

Q-phenylene-D-phenylene-Q with D being C_1-C_4alkylene, O, S, SO or SO_2;

L, as a trivalent group, is Q-capped C_3-C_{12}alkanetriyl, a trivalent residue of a hexose or a hexitol, or a group $(-O-CH_2)_3C-CH_2OH$; -Q-C_aH_{2a}-N(C_bH_{2b}-Q-)-C_cH_{2c}-Q-;

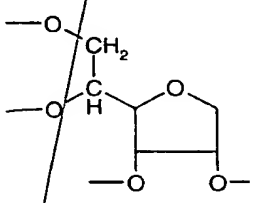
-Q-C_3-C_{12}alkanetriyl(-Q-CO-C_vH_{2v}-O-)$_2$;

-O-C_3-C_{12}alkanetriyl(-O-CH_2-CH(OH)-CH_2-O-)$_2$; and

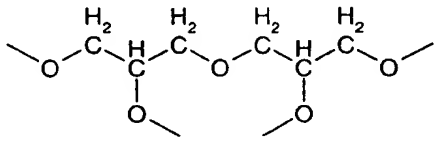
L, as a tetravalent group, is a tetravalent residue of a hexose or a hexitol;

-Q-C_4-C_{12}alkanetetryl(-Q-CO-C_vH_{2v}-O-)$_3$;

-O-C_4-C_{12}alkanetetryl(-O-CH_2-CH(OH)-CH_2-O-)$_3$; Q-capped C_4-C_{12}alkanetetryl; a group



or a group



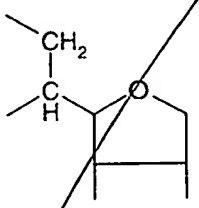
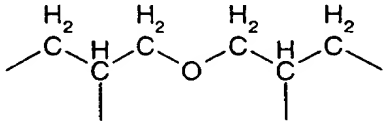
;

Q is oxygen or -NH-,

Z is a linking group of valency (k+1) and is as a divalent group C_2-C_{12}alkylene, Q-interrupted C_4-C_{12}alkylene, phenylene or phenylene-D-phenylene with D being C_1-C_4alkylene, O, S, SO or SO_2;

Z, as a trivalent group, is C_3-C_{12}alkanetriyl, a trivalent residue of a hexose or a hexitol, a group $(-CH_2)_3C-CH_2OH$, or a group $-C_aH_{2a}-N(C_bH_{2b}-)-C_cH_{2c}-$; and

Z, as a tetravalent group, is a tetravalent residue of a hexose or a hexitol, C_4-C_{12}alkanetetryl,

a group  or a group  ;

a, b, c and k independently are 1, 2 or 3,

m is 0 or a number from the range 1-12,

s is 1 or 2,

and t is a number from the range 3-12,

v is 1, 2, 3, 4, 5, 6, 7 or 8;

and all other residues are as defined in claim 1 for formula I if n is 1.

15. Process for stabilizing an organic material against deterioration by light, oxygen and/or heat, which process comprises incorporating a compound of the formula V and/or VI according to claim 14 as stabilizer into said organic material.

16. Use of a compound of the formula V and/or VI according to claim 14 as stabilizer for organic material against deterioration by light, oxygen and/or heat.